

Title (en)  
RE-QUANTIZATION DEVICE HAVING NOISE SHAPING FUNCTION, SIGNAL COMPRESSION DEVICE HAVING NOISE SHAPING FUNCTION,  
AND SIGNAL TRANSMISSION DEVICE HAVING NOISE SHAPING FUNCTION

Title (de)  
REQUANTISIERUNGSVORRICHTUNG MIT RAUSCHFORMUNGSFUNKTION, SIGNALKOMPRESSIONSVORRICHTUNG MIT  
RAUSCHFORMUNGSFUNKTION UND SIGNALÜBERTRAGUNGSVORRICHTUNG MIT RAUSCHFORMUNGSFUNKTION

Title (fr)  
DISPOSITIF DE REQUANTIFICATION À FONCTION DE MISE EN FORME DU BRUIT, DISPOSITIF DE COMPRESSION DE SIGNAL À  
FONCTION DE MISE EN FORME DU BRUIT, ET DISPOSITIF DE TRANSMISSION DE SIGNAL À FONCTION DE MISE EN FORME DU BRUIT

Publication  
**EP 3691130 A1 20200805 (EN)**

Application  
**EP 18861766 A 20180926**

Priority  
• JP 2017191237 A 20170929  
• JP 2018093145 A 20180514  
• JP 2018035643 W 20180926

Abstract (en)  
What is provided is a subtractor, as a re-quantization device, which is configured to detect re-quantization noise, a discrete time filter which is configured to perform frequency weighting on the detected re-quantization noise, an adder which is configured to add an additional signal to quantization noise, and an additional signal selector which is configured to select a value at the present time of a column of an additional signal for minimizing the magnitude of quantization noise having been subjected to frequency weighting evaluated one sampling or more later.

IPC 8 full level  
**H03M 7/38** (2006.01)

CPC (source: EP US)  
**H03M 7/3015** (2013.01 - EP); **H03M 7/3026** (2013.01 - US); **H03M 3/366** (2013.01 - EP); **H03M 3/50** (2013.01 - EP); **H03M 7/3026** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3691130 A1 20200805**; **EP 3691130 A4 20210630**; CN 111164896 A 20200515; JP 7084638 B2 20220615; JP WO2019065716 A1 20201203; US 10892774 B2 20210112; US 2020266828 A1 20200820; WO 2019065716 A1 20190404

DOCDB simple family (application)  
**EP 18861766 A 20180926**; CN 201880062813 A 20180926; JP 2018035643 W 20180926; JP 2019545557 A 20180926; US 201816651508 A 20180926